AMENDMENTS

In the Specification

The following is a marked-up version of the specification with the language that is underlined ("___") being added and the language that contains strikethrough ("—") being deleted:

Beginning Page 1 Line 14:

~~On~~ One example of a USB protocol is the remote network drive interface specification or "RNDIS".

Beginning Page 2 Line 7:

The use of multiple Configurations is described in the USB specification. In particular, the specification allows devices to export more than one CONFIGURATION descriptor, and the host can retrieve these descriptions (and associated Interfaces and Endpoints) by sending a GET_DESCRIPTOR command to the device. A device can only support one Configuration at a time, and the host selects the active Configuration by sending SET_CONFIGURATION message to the device. It should be understood that multiple configuration for USB devices was supported in the USB standard to allow the combination of multiple functional elements within single device. Each functional element corresponds to a client driver. However, since only one such functional element within a device can be active at one time, in order to ~~user~~ use the various functions, it was required that the host have the capability to switch from on functionality to another without rebooting or disconnecting the device.

Beginning Page 3 Line 16:

Because Windows operating system inherently include all device drivers necessary to operate a device using the RNDIS protocol, it is desirable to support the RNDIS protocol for USB device on Windows. Additionally, a standard for Ethernet network devices, known as the Communication and Data Class-Ethernet Networking Model ("CDC-Ethernet") standard has also ~~bee~~ been developed by the USB Forum for other operating systems. Drivers for CDC-Ethernet are already available for this standard in Linux machines, and can be written for machines running Mac OS.

Beginning Page 6 Line 9:

In step 102, the network adapter receives ~~an~~ a first GET_DESCRIPTOR request from a host. In response, the network adapter returns the descriptor set associated with RNDIS configuration. If the "bNumConfigurations: field in the DEVICE descriptor exchanged earlier between the host and the network adapter indicates multiple supported configurations, a second GET_DESCRIPTOR request is generated in step 105. In response, the network adapter returns the descriptor set associated with the CDC-Ethernet configuration in step 106. Next, in step 108, the host parses these configurations to find the configuration supported by the device. Next, in step 110, the host then selects the configuration which matches the client driver (RNDIS for Windows and CDC-Ethernet for non-Windows). Because only one configuration for a USB device may be active at any one time, the device must determine whether its configuration status needs to be modified upon receipt of a SET_CONFIGURATION issued by the host in step 111. Each configuration inside the network adapter corresponds to a particular subsystem. The first configuration is the RNDIS subsystem and the second configuration is for CDC-Ethernet subsystem.

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Beginning Page 8 Line 16:

The Apple Macintosh CDC-Ethernet drivers for machines (both OS 9 and OS X) may be written and supplied to the firmware developer. These drivers are designed to probe all available USB Configurations to locate the required USB Interfaces. The Apple Macintosh CDC-Ethernet driver will be loaded for Config#2 as this matches the CDC-Ethernet requirements.

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